WHAT IS CLAIMED IS:

1. A chamber structure of an inductive coupling plasma etching apparatus, comprising:

an etch chamber in which an etching process is performed;

a plasma chamber in which plasma is generated; and

a segregation wall part having a portion made of ceramic material opposite to the etch chamber, and having a portion made of quartz material opposite to the plasma chamber, the segregation wall part separating the etch chamber from the plasma chamber.

10

- 2. The chamber structure of claim 1, wherein the plasma chamber is in an upper portion of the chamber structure, and the etch chamber is in a lower portion of the chamber structure.
- 15 3. The chamber structure of claim 1, which is of cylindrical shape.
 - 4. The chamber structure of claim 1, wherein the portion of the segregation wall part opposite to the etch chamber includes a heater that heats the ceramic material.
- The chamber structure of claim 1, wherein the segregation wall part includes gas flow paths and gas exhaust holes that supply process gas into the etch chamber.
- A chamber structure of an inductive coupling plasma etching apparatus, the
 chamber structure having cylindrical shape and being divided by one segregation wall
 part into a first chamber wherein an etching process is performed and a second

chamber in which plasma is generated,

the segregation wall part having a portion made of ceramic material that is a ceiling of the first chamber, and having a portion made of quartz material that is a bottom of the second chamber.

5

- 7. The chamber structure of claim 6, wherein the portion of the segregation wall part that is a ceiling of the first chamber includes a heater.
- 8. The chamber structure of claim 6, wherein the segregation wall part includes gas flow paths and gas exhaust holes that supply process gas into the first chamber.
 - 9. A chamber structure of an inductive coupling plasma etching apparatus of cylindrical shape divided into an upper chamber and a lower chamber by one segregation wall part,
- the segregation wall part having a portion made of ceramic material that is a ceiling wall of the lower chamber, and having a portion made of quartz material that is a bottom wall of the upper chamber.
- 10. The chamber structure of claim 9, wherein plasma is generated in the upper chamber.
 - 11. The chamber structure of claim 9, wherein an etching process is performed in the lower chamber.
- 25 12. The chamber structure of claim 9, wherein the portion of the segregation wall

part that is a ceiling wall of the lower chamber includes a heater.

13. The chamber structure of claim 9, wherein the segregation wall part includes gas flow paths and gas exhaust holes that supply process gas into the lower chamber.